KENWOOD

Listen to the Future

ADVANCED WIRELESS COMMUNICATIONS

TK-863G

Compact UHF FM Mobile Radio
Conventional & Trunked

GENERAL FEATURES

- 25W, 450-490 MHz
- 32 Systems / 250 GID
- 8 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 10 Programmable Function Keys
- Inverting Front Panel
- Internal Speaker
- Companded Audio
- Encryption / ANI Board Control
- Emergency Call Features
- DTMF Encode
- Time Out Timer
- Busy Channel Lockout
- Accessory Interface Cable Option
- Ignition Sense [1]
- Public Address / Horn Alert Option [2]
- MIL-Spec Standard Mic Included
- MIL-Spec Noise-canceling Mic Option
- MIL-Spec 12-Key Noise-canceling Mic Option
- Windows Programming & Tuning
- Windows Firmware Uploading
- Front Panel Test / Tune
- Cloning
- MIL-STD-810 C/D/E/F

CONVENTIONAL SYSTEMS

- QT / DQT
- Single Priority Scan

TRUNKED SYSTEMS

- Kenwood LTR® Features

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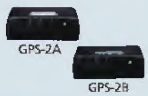
Options

- **KMC-9C** Control Station Desktop Microphone
- **KMC-27A** Microphone (MIL-SPEC Noise-Canceling)
- **KMC-27B** Microphone
- **KMC-2BA** Keypad Microphone (MIL-SPEC Noise-Canceling)
- **KCT-18** Ignition Sense Cable
- **KCT-19** Accessories Connector Cable
- **KCT-3S** Extension Cable for KGP-2A/2B & KDS-100
- **KCT-36** Extension Cable
- **KES-3** External Speaker
- **KES-S** External Speaker
- **KMB-10** Key Lock Adapter
- **KMB-20** Mounting Case
- **KPS-1S** DC Power Supply
- **KLF-2** Line Noise Filter
- **KAP-1** PA/HA Unit
- **KDS-100** Mobile Data Terminal
- **KGP-2A/2B** GPS Receiver / Modem Unit 

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

Model	TK-863G
GENERAL	
Frequency Range	450~490 MHz
Number of Systems	Max. 32
Number of Groups	Max. 250
Number of Channels (Conventional)	Max. 600
Channel Spacing	
Wide	25 kHz
Narrow	12.5 kHz
Channel Step	5 kHz, 6.25kHz
Channel Spread	40 MHz
Current Drain	
Standby	Less than 0.4 A
Receive	Less than 1.0 A
Transmit	Less than 8.0 A
Antenna Impedance	50 Ω
Operating Voltage	13.6 V DC ± 20 %
Operating Temperature Range	-22° F ~ +140° F (-30° C ~ +60° C)
Frequency Stability	±0.00025% (-22° F ~ +140° F)
Dimensions (W x H x D)	5-1/2 x 1-1/2 x 5-3/4 in. (140 x 40 x 145 mm)
Weight (net)	2.07 lbs. (940 g)
FCC ID	ALH29383110

Model	TK-863G
RECEIVER (Measurements made per EIA/TIA-603)	
Sensitivity (12dB SINAD)	
Wide	0.28 µV
Narrow	0.35 µV
Selectivity	
Wide	80 dB
Narrow	65 dB
Intermodulation Distortion	
Wide	75 dB
Narrow	63 dB
Spurious Response	85 dB
Audio Output	4 W with less than 5% distortion
TRANSMITTER (Measurements made per EIA/TIA-603)	
RF Power Output	25 W
Spurious	65 dB
FM Noise	
Wide	50 dB
Narrow	45 dB
Modulation	
Wide	16KØF3E
Narrow	11KØF3E
Audio Distortion	Less than 3%

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

LTR® is a registered trademark of Transcrypt International.

Applicable MIL-STD

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Sand & Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I Cat.8	514.4/Procedure I Cat.8	514.5/Procedure I Cat.20
Shock	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V

footnotes from Front:
[1] Ignition sense requires KCT-18, 19.
[2] Public Address / Horn Alert Option requires KAP-1 PA/HA Unit and KCT-19 ACC Cable Options.

ISO 9001 JQA-QMA1205 091-A
ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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ADVANCED WIRELESS COMMUNICATIONS

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